

# Specifications — MVC 121

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## Audio

Gain from mic input to both fixed and variable outputs at default settings

Mic DIP switch = line level Unbalanced output: +20 dB; balanced output: +26 dB

Mic DIP switch = mic level Unbalanced output: +50 dB; balanced output: +56 dB

Gain from main input to both fixed and variable outputs at default settings

Unbalanced output: 0 dB; balanced output: +6 dB

Master volume range..... 0 to 92 ("off", and -79 dB to +12 dB in 0.5 dB steps)

Mic 1, 2, and Main 3 gain range.. -79 dB to +12 dB in 0.5 dB steps

Frequency response ..... 20 Hz to 20 kHz,  $\pm 0.05$  dB

THD + Noise..... 0.03% @ 1 kHz at nominal level

S/N..... >90 dB, balanced, at maximum output

Crosstalk..... <-80 dB @ 1 kHz, <-60 dB @ 20 kHz, fully loaded

Stereo channel separation ..... >80 dB @ 1 kHz, >60 dB @ 20 kHz

CMRR..... >75 dB @ 20 Hz to 20 kHz

**NOTE** All input gain default settings are at 80. The master volume default setting is 50 (-30 dB).

## Audio input

Number/signal type

Microphone inputs..... 2 mono, balanced/unbalanced

Main input..... 1 stereo, balanced/unbalanced

Connectors

Microphone inputs..... (1) 3.5 mm captive screw connector, 5 pole

Main input..... (1) 3.5 mm captive screw connector, 5 pole

Impedance..... >10k ohms, DC coupled

Nominal level (mic inputs)

DIP switch = line level..... -30 dBV (32 mV) for a wireless microphone

DIP switch = mic level..... -60 dBV (1 mV) for a wired microphone

Nominal level (main input)..... -10 dBV (316 mV)

Maximum level..... +20 dB above nominal level, (balanced or unbalanced) at 1% THD+N

Input gain adjustment ..... -79 dB to +12 dB, adjustable per input

Input level sensitivity (mic inputs)

DIP switch = line level..... -42 dBV (8 mV) for nominal output

DIP switch = mic level..... -72 dBV (0.25 mV) for nominal output

Input level sensitivity (main input) -22 dBV (79 mV) for nominal output

**NOTE** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV  $\approx$  2 dBu

## Audio output

Number/signal type..... 2 stereo, balanced/unbalanced

Connectors ..... (2) 3.5 mm captive screw connector, 5 pole

Impedance..... 50 ohms unbalanced, 100 ohms balanced

Gain error .....  $\pm 0.1$  dB channel to channel

Nominal level ..... +4 dBu (1.23 V), balanced output (when gain is set to +6 dB)

-10 dBV (0.316 V), unbalanced output

Maximum level (Hi-Z) ..... >+24 dBu, balanced; >+18 dBu, unbalanced at 1% THD+N

Maximum level (600 ohm)..... >+15 dBm, balanced at 1% THD+N

## Control/remote— mixer/volume controller

Serial control port..... RS-232, 3.5 mm female captive screw connector (3 poles of a 6 pole connector)

Baud rate and protocol..... 9600, 8-bit, 1 stop bit, no parity

Serial control pin configurations. 1 = TX, 2 = RX, 3 = GND

# Specifications — MVC 121, cont'd

Contact closure mute control.....	1 = mic 1, 2 = mic 2, 3 = main input
Program control.....	Extron's control program for Windows® Extron's Simple Instruction Set (SIS™)

## General

External power supply .....	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A, regulated
Power input requirements .....	12 VDC, 0.5 A.
Temperature/humidity .....	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, noncondensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, noncondensing
Cooling .....	Convection, no vents
Mounting	
Rack mount .....	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01); 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10); or VersaTools® 1U, 3.5" deep rack shelf (RSF 123, #60-190-20; RSB 123, 60-604-20)
Furniture mount .....	Yes, with optional VersaTools mini under-desk mounting kit, part #70-212-01 (MBU 123)
Pole mount .....	Yes, with VersaTools mini pole mount kit, part #70-217-01 (PMK 100)
Enclosure type .....	Metal
Enclosure dimensions.....	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors and knobs.)
Product weight .....	0.6 lbs (0.3 kg)
Shipping weight .....	3 lbs (2 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, CUL, UL
EMI/EMC .....	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** All nominal levels are at ±10%.

**NOTE** Specifications are subject to change without notice.

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